-	ile from non-ASCII	to ASCII	ENTER	RED by: -	(STIC
Changed the	margins in cases	where the sequer	nce text was "wrap	ped* down to the	next line. RECEI
Edited a for	nat error in the Cur	rrent Application C	ata section, speci	fically:	MAY 2
Edited the C applicant wa	urrent Application ( s  the prior app	Data section with plication data; or	the actual current	number. The nun	nber inputted by the
Added the m	andatory heading	and subheadings	for *Current Applic	cation Data*.	
Edited the *N	Number of Sequenc	ces" field. The ap	plicant spelled out	a number instead	of using an intege
Changed the	spelling of a mand	datory field (the he	eadings or subhea	dings), specifically	<i>i</i> :
Corrected th	e SEQ ID NO whe	n obviously incorre	ect. The sequence	numbers that we	ere edited were:
Inserted or c	orrected a nucleic	number at the end	d of a nucleic line.	SEQ ID NO's ed	ited:
Corrected su applicant pla	bheading placeme	ent. All responses low the subheadir	must be on the sa ng, this was moved	me line as each s I to its appropriate	subheading. If the place.
Inserted cold	ons after headings/	/subheadings. He	adings edited inclu	uded:	,
Deleted extr	a, invalid, heading	s used by an appli	icant, specifically:		·
Deleted:   page no	non-ASCII *garba umbers throughout	age" at the beginni t text;	ing/end of files; [	secretary initial	s/filename at end o
	indatory headings,			42)	
	n obvious error in (				nass
Edited ident	ifiers where upper	case is used but I	ower case is requi	red, or vice versa	•
Corrected a	n erfor in the Numl	ber of Sequences	field, specifically:	·	
	ge Break* code was				
Deleted <i>endl</i> due to a Pate	ng stop codon in a	amino acid sequer nces corrected:	nces and adjusted	the "(A)Length:" f	ield accordingly (en
Other:					

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



1600

DATE: 05/15/2003 RAW SEQUENCE LISTING TIME: 20:01:38 PATENT APPLICATION: US/09/446,415C

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05152003\I446415C.raw

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MAY 2 2 2003
  3 <110> APPLICANT: Beamer, Lesa J.
  Carroll, Stephen F.

7 <120> TITLE OF INVENTION: BACTERICIDAL/PERMEABILITY-INCREASING PROTEECH CENTER 1600/2900

8 CRYSTALLIZATION, X-RAY DIFFRACTION, THREE-DIMENSIONAL

9 STRUCTURE DETERMINATION, RATIONAL DRUG DESIGN TO THE DESIGN TO THE
                       MOLECULAR MODELING OF RELATED PROTEINS
12 <130> FILE REFERENCE: 11034US02
14 <140> CURRENT APPLICATION NUMBER: 09/446,415C
15 <141> CURRENT FILING DATE: 2000-07-19
17. <150> PRIOR APPLICATION NUMBER: 08/879,565
18 <151> PRIOR FILING DATE: 1997-06-20
20 <160> NUMBER OF SEQ ID NOS: 14
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                                                                                                                                                                   -25
43
45 cct tgc aac gcg ccg aga tgg gtg tcc ctg atg gtg ctc gtc gcc ata
                                                                                                                                                                                            102
46 Pro Cys Asn Ala Pro Arg Trp Val Ser Leu Met Val Leu Val Ala Ile
47
                                         -20
                                                                                                -15
                                                                                                                                                      -10
49 ggc acc gcc gtg aca gcg gcc gtc aac cct ggc gtc gtg gtc agg atc
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50 Gly Thr Ala Val Thr Ala Ala Val Asn Pro Gly Val Val Val Arg Ile
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20

35

53 tee eag aag gge etg gae tae gee age eag eag ggg aeg gee get etg

54 Ser Gln Lys Gly Leu Asp Tyr Ala Ser Gln Gln Gly Thr Ala Ala Leu

57 cag aag gag ctg aag agg atc aag att cct gac tac tca gac agc ttt

58 Gln Lys Glu Leu Lys Arg Ile Lys Ile Pro Asp Tyr Ser Asp Ser Phe

61 aag atc aag cat ctt ggg aag ggg cat tat agc ttc tac agc atg gac

15

30

198

246

294

55 10

### RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/446,415C

DATE: 05/15/2003 TIME: 20:01:38

Input Set : A:\PTO.AMC.txt

62 Lys Ile Ly	. Wie Tou	Clu Ive	Cly Hie	Tur Ser	Phe Tyr	Ser Met	Asn	
63 Lys IIe Ly	45	GIY DYS	50		ine iyi	55	1.00	
65 atc cgt ga	a ttc cag	ctt ccc	agt tcc	cag ata	agc atg	gtg ccc		342
66 Ile Arg Gl		Leu Pro		Gln Ile		Val Pro	Asn	
67 6		++-	65	~~~ ~~+	70	ata aga	aaa	390
69 gtg ggc ct 70 Val Gly Le							222	390
70 val Gly Le 71 75	д Бур гие	80	Ser Man	ALG ASII	85	IIC DCI	O <sub>2</sub> y	
73 aaa tgg aa	g qca caa		ttc tta	aaa atg	agc ggc	aat ttt	gac	438
74 Lys Trp Ly	s Ála Gln	Lys Arg	Phe Leu	Lys Met	Ser Gly	Asn Phe	Asp	
75 90		95		100			105	
77 ctg agc at							. J.	486
78 Leu Ser Il		Met Ser	lle Ser		Leu Lys	Leu Gly	Ser	
79 81 aac ccc ac	110	aan ccc	acc atc	115 acc tac	tcc ago		agc	534
82 Asn Pro Th	r Ser Glv	Lvs Pro	Thr Ile	Thr Cys	Ser Ser	Cys Ser	Ser	
83	125	_ <b>_</b>	130			135		
85 cac atc aa	c agt gtc	cac gtg	cac ato	tca aag	agc aaa	gtc ggg	tgg	582
86 His Ile As		His Val		Ser Lys		Val Gly	Trp	
87 14			145		150	~~~ ~~~	224	630
89 ctg atc ca 90 Leu Ile Gl								030
90 Led 11e G1 91 155	i beu rne	160	пуз тте	. OIU DCI	165	111g 11011	2,5	
93 atg aac ag	c cag gtc		aaa gto	acc aat		tcc tcc	aag	678
94 Met Asn Se	r Gln Val	Cys Glu	Lys Val	. Thr Asn	Ser Val	Ser Ser	Lys	
95 170		175		180			185	700
97 ctg caa cc	t tat ttc	cag act	ctg cca	gta atg	acc aaa	ata gat	tct	726
98 Leu Gln Pr	o Tyr Phe 190		Leu Pro	val Met 195	Thr Lys	11e Asp	Ser	
99 101 gtg gct g			t cta at		t cca qca		a act	774
102 Val Ala G	ly Ile As	n Tyr Gl	y Leu Va	ıl Ala Pr	o Pro Ala	a Thr Th	r Ala	
103	205		21	.0		215		
105 gag acc c	tg gat gt	a cag at	g aag go	g gag tt	t tac ag	t gag aa	c cac	822
106 Glu Thr L		l Gln Me		y Glu Ph.			n His	
107 2 109 cac aat c	20 22	c ttt ac	225	a ata at	230 a gag tt:		t acc	870
110 His Asn P	ro Pro Pr	o Phe Ala	a Pro Pr	o Val Me	t Glu Ph	e Pro Ala	a Ala	• • •
111 235		24			245			
113 cat gac c	gc atg gt	a tac ct	g ggc ct	c tca ga	c tac tt	c ttc aa	c aca	918
114 His Asp A	rg Met Va		u Gly Le			e Phe Asi	n Thr	
115 250		255		26	-		265	966
117 gcc ggg c	tt gta ta	c caa ga	g get ge	g gtc tt	g aag at	g acc ct	t aga	966
118 Ala Gly L 119	eu vai iy 27		u Ala Gi	.y vai be 275	и пуз не	28		
121 gat gac a	_	-	d tcc aa		a ctg ac			1014
122 Asp Asp M	et Ile Pr	o Lys Gl	u Ser Ly	s Phe Ar	g Leu Th	r Thr Ly	s Phe	
123	285		29	90		295		
125 ttt gga a								1062
126 Phe Gly T	hr Phe Le	u Pro Gl	u Val Al	.a Lys Ly	s Phe Pr	o Asn Me	t Lys	

RAW SEQUENCE LISTING

DATE: 05/15/2003 PATENT APPLICATION: US/09/446,415C TIME: 20:01:38

Input Set : A:\PTO.AMC.txt

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	ata	caσ		cat	atc	tca	acc		acc	cca	cca	cac		tct	gtg	cag	1110
															Val		
131		315					320					325					
	aaa		aac	ctt	acc	ttc	tac	cct	acc	ata	gat	atc	caσ	acc	ttt	acc	1158
															Phe		
	330					335	- 1 -				340					345	
		ctc	CCC	aac	too		cta	act	taa	ctc	-	cta	att	aac	atg		1206
															Met		
139	V 4.1	200	110		350				<b>~</b> ~ ~	355				J J	360		
	aca	act	aat	tcc		gag	atc	agc	acc		t.cc	aac	agg	ctt	gtt	gga	1254
															Val		
143			021	365		020			370				9	375		1	
	aaa	ctc	aan		gat	agg	cta	ctc		паа	cta	aad	cac		aat	att	1302
			_	_	_		_		-	_	_	_			Asn		
147	014	шса	380	шец	1101	9	200	385		0	200		390				
	aac	CCC		cca	att	даа	ttα		cad	gat	atc	atα		tac	att	αta	1350
															Ile		1000
151	OLY	395	1110	110	Val	OIU	400	БСС	01.11	110P	110	405	11011	- 1 -	110	• • • • • • • • • • • • • • • • • • • •	
	CCC		ctt	ata	cta	ccc		att	aac	gag	aaa		cad	aaa	ggc	ttc	1398
															Gly		
	410	110	пοα	•	шеч	415	9	• • •		024	420	Lou	01	270	0-1	425	
		ctc	cca	aca	cca		aga	atc	cad	ctc		aac	αta	ata	ctt		1446
															Leu		
159	110	пса	110		430	1114	**** 9	• • • •	0111	435	- ]				440	·	
	cct	cac	cad	aac		cta	cta	ttc	aat		gac	att	atic	tat			1491
								Phe									
163		,	01	445					450					455	-1-		
	t.αaa	aggca	acc a		ataco	ca ao	raact	tatca	a aca	cacao	ccta	ttc	ctgat	taa (	actat	ggggc	1551
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																aagtg	
																atattt	
																aaaaa	
	aact								_				, ,		•		1813
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	<211																
	<212																
181	<213	3> OI	RGAN	ISM:	Huma	an											
183	<220	)> FI	EATU	RE:													
184	<223	3> 07	THER	INFO	ORMA'	rion:	rı"	BPI"									
	<400																
						Ala	Arg	Gly	Pro	Cys	Asn	Ala	Pro	Arg	Trp	Val	
188		-30					-25	-		-		-20		_	-		
190	Ser	Leu	Met	Val	Leu	Val	Ala	Ile	Gly	Thr	Ala	Val	Thr	Ala	Ala	Val	
	-15					-10			-		-5				-1	1	
193	Asn	Pro	Gly	Val	Val		Arg	Ile	Ser	Gln	Lys	Gly	Leu	Asp	Tyr	Ala	•
194			-	5					10		-	_		15			
196	Ser	Gln	Gln	Gly	Thr	Ala	Ala	Leu	Gln	Lys	Glu	Leu	Lys	Arg	Ile	Lys	
197			20	-				25		-			30				

### RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/446,415C

DATE: 05/15/2003 TIME: 20:01:38

Input Set : A:\PTO.AMC.txt

199 200	Ile	Pro 35	Asp	Tyr	Ser	Asp	Ser 40	Phe	Lys	Ile	Lys	His 45	Leu	Gly	Lys	Gly
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		Gln	Ile	Ser	Met 70		Pro	Asn	Val	Gly 75		Lys	Phe	Ser	Ile 80	Ser
	Asn	Ala	Asn	Ile 85		Ile	Ser	Gly	Lys 90		Lys	Ala	Gln	Lys 95		Phe
	Leu	Lys	Met 100	Ser	Gly	Asn	Phe	Asp		Ser	Ile	Glu	Gly 110		Ser	Ile
	Ser	Ala 115		Leu	Lys	Leu	Gly 120		Asn	Pro	Thr	Ser 125		Lys	Pro	Thr
217	Ile 130		Cys	Ser	Ser	Cys 135		Ser	His	Ile	Asn 140		Val	His	Val	His 145
		Ser	Lys	Ser	Lys 150		Gly	Trp	Leu	Ile 155		Leu	Phe	His	Lys 160	
223	Ile	Glu	Ser	Ala 165		Arg	Asn	Lys	Met 170		Ser	Gln	Val	Cys 175		Lys
	Val	Thr		Ser	Val	Ser	Ser	Lys 185		Gln	Pro	Tyr	Phe		Thr	Leu
	Pro		180 Met	Thr	Lys	Ile	_		Val	Ala	Gly			Tyr	Gly	Leu
		195 Ala	Pro	Pro	Ala		200 Thr	Ala	Glu	Thr		205 Asp	Val	Gln	Met	
	210 Glv	Glu	Phe	Tyr	Ser	215 Glu	Asn	His	His	Asn	220 Pro	Pro	Pro	Phe	Ala	225 Pro
236	_			Glu	230					235					240	
239				245					250					255		
242			260	Tyr				265					270			
245	_	275		Lys			280					285				
248	290		_	Leu		295					300					305
251		_	-	Phe	310					315					320	
254				His 325					330		_			335		
256 257	Ala	Val	Asp 340	Val	Gln	Ala	Phe	Ala 345	Val	Leu	Pro	Asn	Ser 350	Ser	Leu	Ala
259 260	Ser	Leu 355	Phe	Leu	Ile	Gly	Met 360	His	Thr	Thr	Gly	Ser 365	Met	Glu	Val	Ser
262	Ala 370	Glu	Ser	Asn	Arg	Leu 375	Val	Gly	Glu	Leu	Lys 380	Leu	Asp	Arg	Leu	Leu 385
		Glu	Leu	Lys	His 390	Ser	Asn	Ile	Gly	Pro 395	Phe	Pro	Val	Glu	Leu 400	Leu
	Gln	Asp	Ile	Met 405		Tyr	Ile	Val	Pro 410		Leu	Val	Leu	Pro 415		Val
	Asn	Glu	Lys	Leu	Gln	Lys	Gly	Phe		Leu	Pro	Thr	Pro		Arg	Val

## RAW SEQUENCE LISTING DATE: 05/15/2003 PATENT APPLICATION: US/09/446,415C TIME: 20:01:38

Input Set : A:\PTO.AMC.txt

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283 <211> LENGTH: 456
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285 <213> ORGANISM: Human
287 <220> FEATURE:
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301 Gly His Tyr Ser Phe Tyr Ser Met Asp Ile Arg Glu Phe Gln Leu Pro
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304 Ser Ser Gln Ile Ser Met Val Pro Asn Val Gly Leu Lys Phe Ser Ile
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307 Ser Asn Ala Asn Ile Lys Ile Ser Gly Lys Trp Lys Ala Gln Lys Arg
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310 Phe Leu Lys Met Ser Gly Asn Phe Asp Leu Ser Ile Glu Gly Met Ser
                                                        110
                                    105
              100
313 Ile Ser Ala Asp Leu Lys Leu Gly Ser Asn Pro Thr Ser Gly Lys Pro
                                120
316 Thr Ile Thr Cys Ser Ser Cys Ser Ser His Ile Asn Ser Val His Val
                                                140
                            135
        130
319 His Ile Ser Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys
                                            155
                        150
320 145
322 Lys Ile Glu Ser Ala Leu Arg Asn Lys Met Asn Ser Gln Val Cys Glu
                                        170
                    165
325 Lys Val Thr Asn Ser Val Ser Ser Glu Leu Gln Pro Tyr Phe Gln Thr
                                    185
                180
328 Leu Pro Val Met Thr Lys Ile Asp Ser Val Ala Gly Ile Asn Tyr Gly
                                200
 329 195
 331 Leu Val Ala Pro Pro Ala Thr Thr Ala Glu Thr Leu Asp Val Gln Met
                                                220
                            215
        210
 334 Lys Gly Glu Phe Tyr Ser Glu Asn His His Asn Pro Pro Pro Phe Ala
                        230
                                            235
 337 Pro Pro Val Met Glu Phe Pro Ala Ala His Asp Arg Met Val Tyr Leu
                    245
                                        250
 340 Gly Leu Ser Asp Tyr Phe Phe Asn Thr Ala Gly Leu Val Tyr Gln Glu
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                260
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VERIFICATION SUMMARY

DATE: 05/15/2003

PATENT APPLICATION: US/09/446,415C

TIME: 20:01:39

Input Set : A:\PTO.AMC.txt



1600

# RAW SEQUENCE LISTING DATE: 05/15/2003 PATENT APPLICATION: US/09/446,415C TIME: 12:43:10

Input Set : A:\11034US02 1-29-03.SEQ.txt
Output Set: N:\CRF4\05152003\I446415C.raw

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3 <110> APPLICANT: Beamer, Lesa J.
        Eisenberg, David
       Carroll, Stephen F.
7 <120> TITLE OF INVENTION: BACTERICIDAL/PERMEABILITY-INCREASING PROTEIN:
     CRYSTALLIZATION, X-RAY DIFFRACTION, THREE-DIMENSIONAL
        STRUCTURE DETERMINATION, RATIONAL DRUG DESIGN AND
9
10
        MOLECULAR MODELING OF RELATED PROTEINS
12 <130> FILE REFERENCE: 11034US02
14 <140> CURRENT APPLICATION NUMBER: 09/446,415C
15 <141> CURRENT FILING DATE: 2000-07-19
17 <150> PRIOR APPLICATION NUMBER: 08/879,565
18 <151> PRIOR FILING DATE: 1997-06-20
20 <160> NUMBER OF SEQ ID NOS: 14
22 <170> SOFTWARE: PatentIn Ver. 2.1
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#### ERRORED SEQUENCES

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178 <210> SEQ ID NO: 2
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182 <223> OTHER INFORMATION: "rBPI"

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     189 -15
                            -10
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     194 Ser Gln Gln Gly Thr Ala Ala Leu Gln Lys Glu Leu Lys Arg Ile Lys
                                     25
     197 Ile Pro Asp Tyr Ser Asp Ser Phe Lys Ile Lys His Leu Gly Lys Gly
                                 40
     200 His Tyr Ser Phe Tyr Ser Met Asp Ile Arg Glu Phe Gln Leu Pro Ser
                             55
     203 Ser Gln Ile Ser Met Val Pro Asn Val Gly Leu Lys Phe Ser Ile Ser
                                             75
                         70
     206 Asn Ala Asn Ile Lys Ile Ser Gly Lys Trp Lys Ala Gln Lys Arg Phe
                      85
                                         90
     209 Leu Lys Met Ser Gly Asn Phe Asp Leu Ser Ile Glu Gly Met Ser Ile
                 100
                                105
                                                        110
     212 Ser Ala Asp Leu Lys Leu Gly Ser Asn Pro Thr Ser Gly Lys Pro Thr
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DATE: 05/15/2003

TIME: 12:43:10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/446,415C

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Output Set: N:\CRF4\05152003\I446415C.raw

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216	130					135					140					145
218	Ile	Ser	Lys	Ser		Val	Gly	Trp	Leu		Gln	Leu	Phe	His		Lys
219					150	_	_	_		155	_	<b>61</b>			160	<b>T</b>
	Ile	Glu	Ser	Ala	Leu	Arg	Asn	Lys		Asn	Ser	Gin	Val		GLu	гуѕ
222		mi .		165	17 - 1	0	C	T	170	C1 ~	Dwo	Ф	Dho	175	mh.~	T O11
	vaı	Thr		Ser	vaı	ser	ser	ьуs 185	ьец	GTII	PIO	тйт	190	GIII	1111	теа
225	Pro	Val	180 Mot	Thr	T.ve	Tlo	Aen		Val	· 1 1 a	Glv	Tle		Tvr	Glv	Leu
228	FIO	195	Mec	1111	цуз	116	200	SCI	VUL	1114	OL y	205		- 1 -	0-1	
	Val		Pro	Pro	Ala	Thr		Ala	Glu	Thr	Leu		Val	Gln	Met	Lys
	210					215					220	-				225
233	Gly	Glu	Phe	Tyr	Ser	Glu	Asn	His	His	Asn	Pro	Pro	Pro	Phe	Ala	Pro
234	-				230				*	235					240	
236	Pro	Val	Met	Glu	Phe	Pro	Ala	Ala		Asp	Arg	Met	Val		Leu	Gly
237				245					250		_		_	255	<b>~</b> 3	
	Leu	Ser		Tyr	Phe	Phe	Asn		Ala	Gly	Leu	Val	Tyr	GIn	Glu	А1а
240	~1		260		34.1	m1	T	265	7\	7	Mat	τ1.	270	T ***C	C1,,	Sor
	_		Leu	Lys	мет	Thr	ьеи 280	Arg	Asp	Asp	мес	285	PIO	гур	. GIU	Ser
243		275	λνα	Leu	Thr	Thr		Phe	Phe	Glv	Thr		Leu	Pro	Glu	Val
	290	File	Arg	пеи	1111	295	цуз	LIIC	LIIC	OTY	300	1110	шеч		<b>01</b> 0	305
248	Ala	Lvs	Lvs	Phe	Pro		Met	Lys	Ile	Gln		His	Val	Ser	Ala	Ser
249		1-	-1-		310			_		315					320	
251	Thr	Pro	Pro	His	Leu	Ser	Val	Gln	Pro	Thr	Gly	Leu	Thr	Phe	Tyr	Pro
252				325					330					335		
	Ala	Val		Val	Gln	Ala	Phe		Val	Leu	Pro	Asn		Ser	Leu	Ala
255			340	_				345	m1	m1	0.1	0	350	<b>C1</b>	77-7	C
	Ser		Phe	Leu	Ile	GLŅ		His	Thr	Thr	GLY	365	мет	GLU	vaı	ser
258	ח ד ול	355	Com	Asn	7\ ~~ ~	T 011	360	C117	Clu	LOU	Tue		Δen	Δrα	T.011	T.eu
	370	GIU	ser	ASII	ALG	375	vaı	GTÄ	Giu	Бец	380	пеа	лэр	my	шси	385
		G111	Leu	Lys	His		Asn	Ile	Glv	Pro		Pro	Val	Glu	Leu	
264	LCu	014	Lou	270	390	~~~			1	395					400	
	Gln	Asp	Ile	Met		Tyr	Ile	Val	Pro	Ile	Leu	Val	Leu	Pro	Arg	Val
267		_		405					410					415		
269	Asn	Glu	Lys	Leu	Gln	Lys	Gly	Phe	Pro	Leu	Pro	Thr		Ala	Arg	Val
270			420					425					430		_	
	Gln		Tyr	Asn	Val	Val		Gln	Pro	His	Gln		Phe	Leu	Leu	Phe
273		435	_			_	440					445				
	_	Ala	Asp	Val	Val		ьуs									
276	450					455							-			

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/446,415C

DATE: 05/15/2003 TIME: 12:43:11

Input Set : A:\11034US02 1-29-03.SEQ.txt
Output Set: N:\CRF4\05152003\I446415C.raw

L:184 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:2